Mega Conference 2014

Arizona's Rising Stars

Changing the paradigm to support a culture of informed decision making

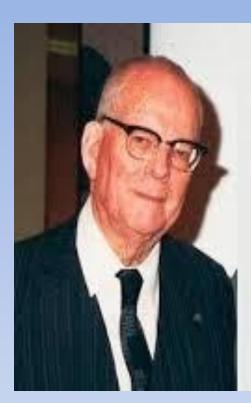
Objectives

Knowledge

- Understand key components of PDSA
- How to use PDSA

Practice

- Applying the PDSA cycle
- Document your work
- Reflect on the impact of PDSA



"It is not enough to do your best; you must know what to do, and then do your best."

W. Edwards Deming

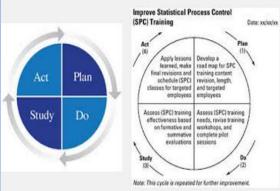
PDSA: Improvement Cycle for PLCs

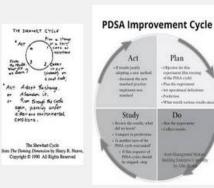
a process for change

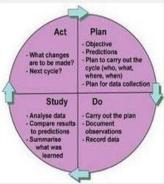
a problem solving process

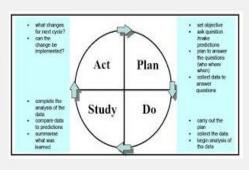
a way to overcome barriers

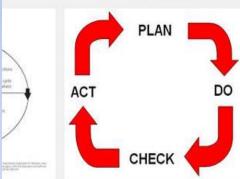
classroom-level to LEA-level







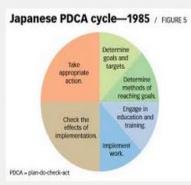




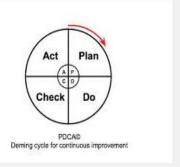


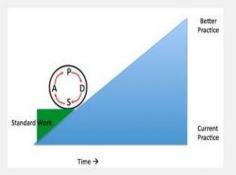






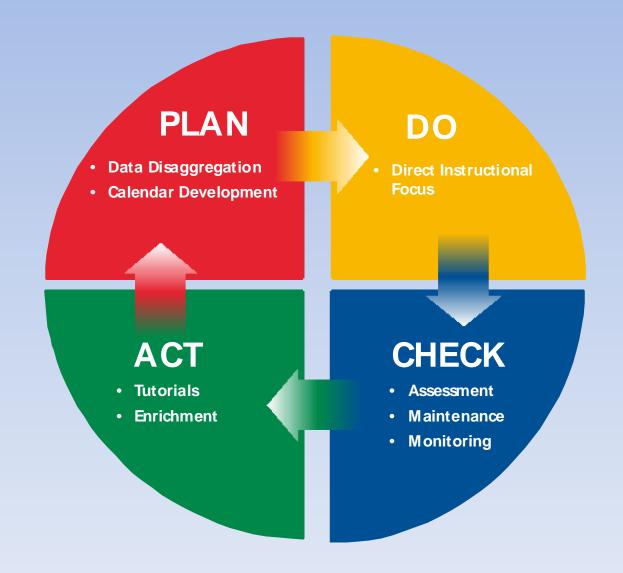


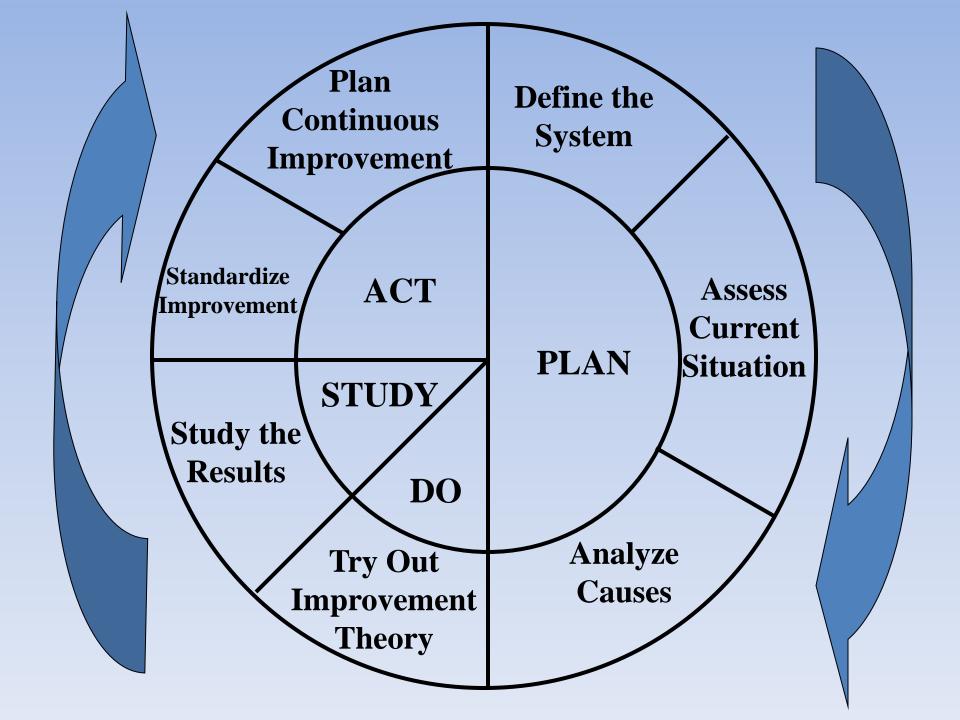


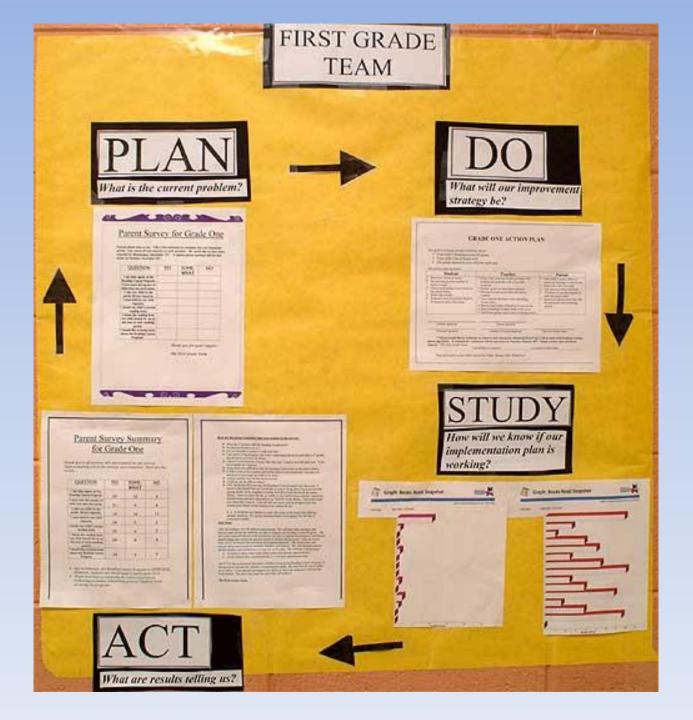




Plan/Do/Check/Act Cycle







Aspects of Data-Driven Decision Making

Review the checklist

Essentials for PDSA

- 1. Leadership team
- 2. Collect data
- 3. Analyze data
- 4. Develop hypotheses
- 5. Set goals SMART
- 6. Define strategies
- 7. Evaluate
- 8. Follow through

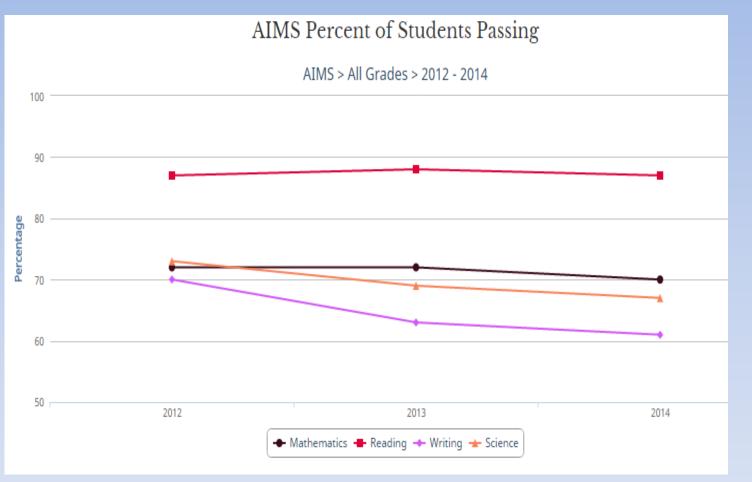


- Applying the PDSA cycle
- Document your work
- Reflect on the impact of PDSA

Looking at the Data

- 1. What does the data tell us?
- 2. What does the data not tell us?
- 3. What are causes for celebration?
- 4. What are opportunities for improvement?
- 5. What are our next steps?

All Students All Grades



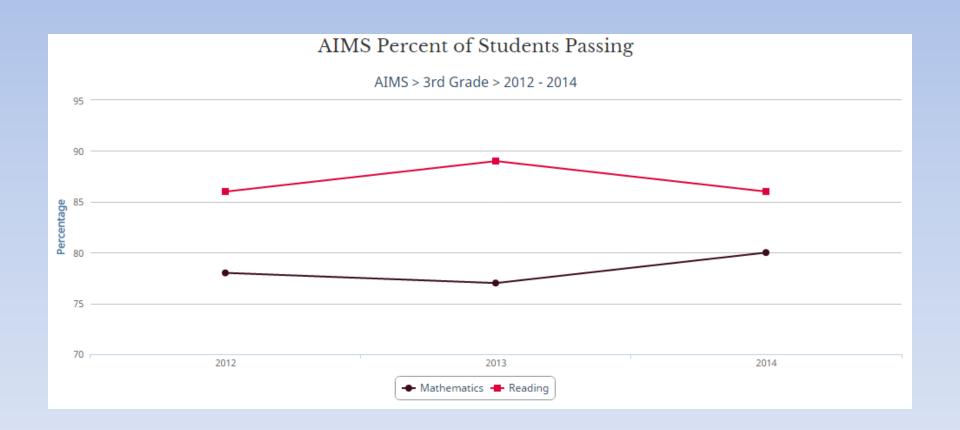
Red = Reading

Black = Math

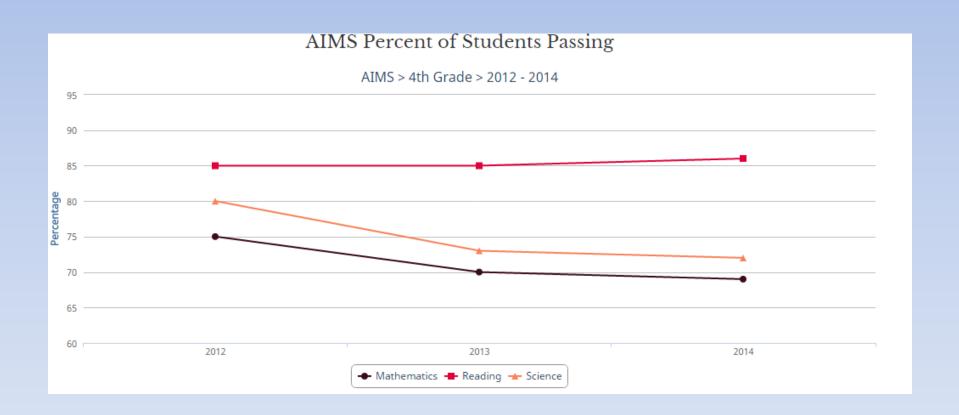
Orange = Science

Pink = Writing

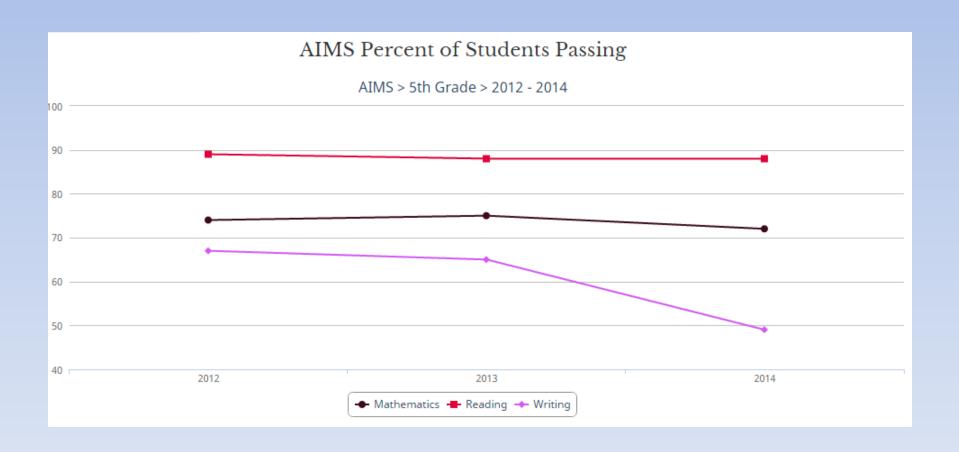
All Students 3rd Grade



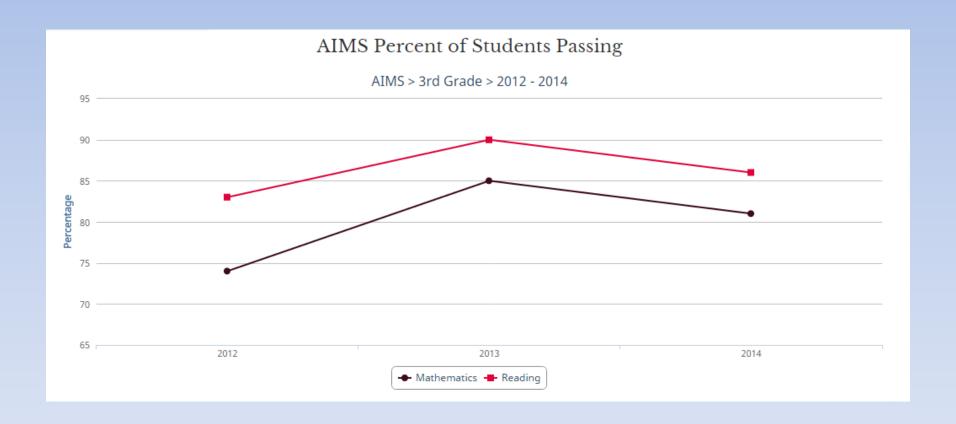
All Students 4th Grade



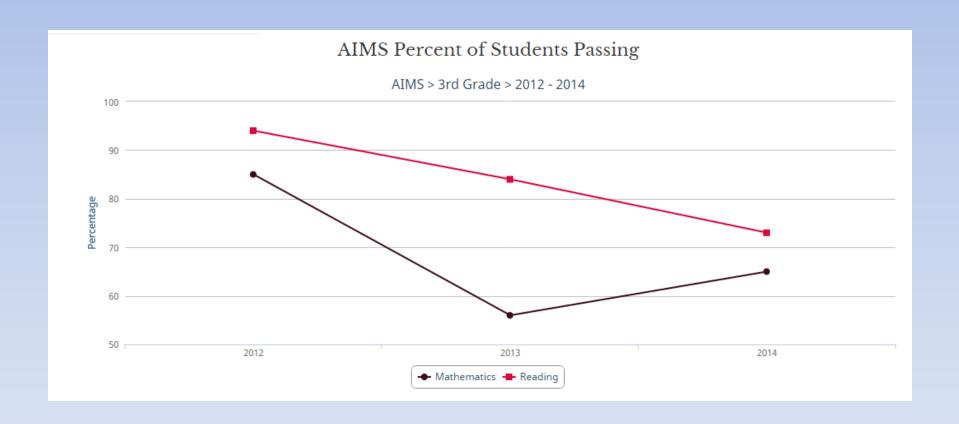
All Students 5th Grade



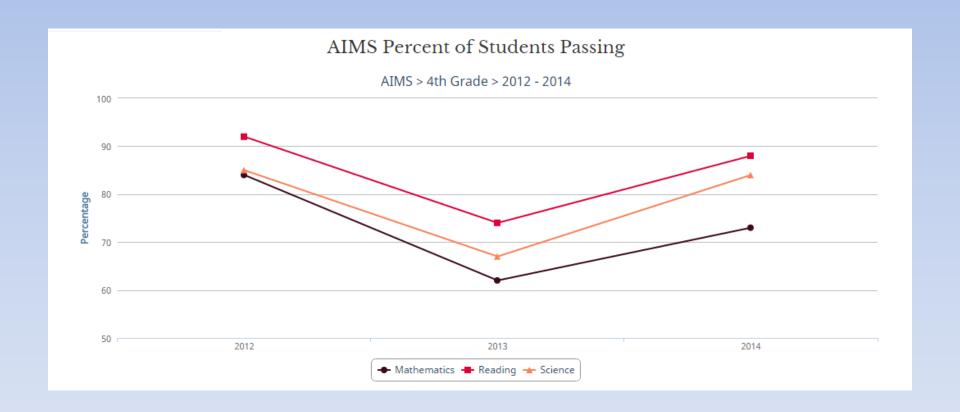
School 1 – grade 3



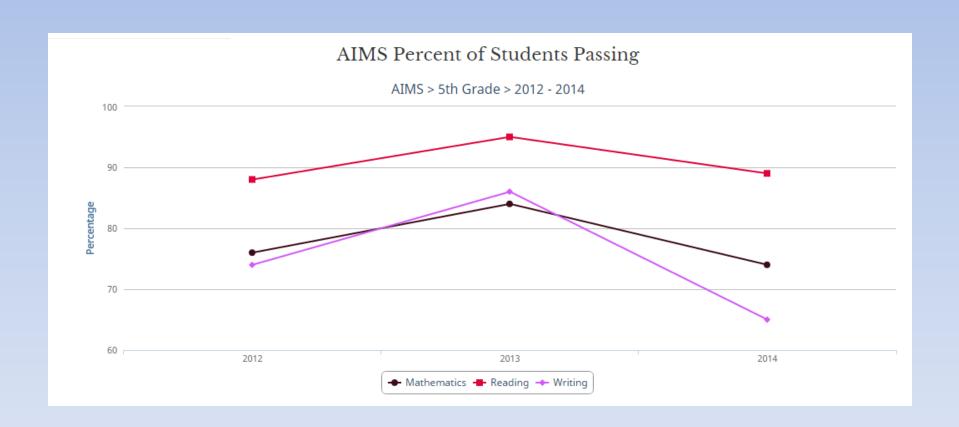
School 2 - Grade 3



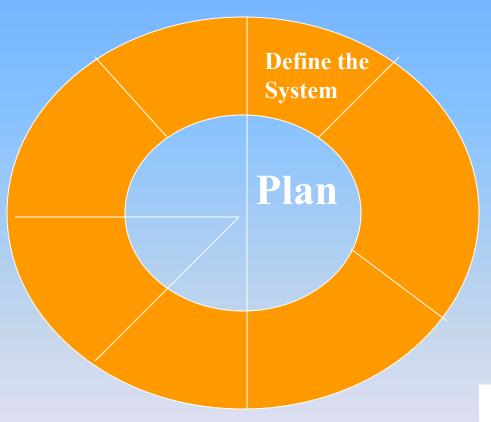
School 1 - Grade 4

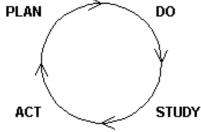


School 1 – Grade 5

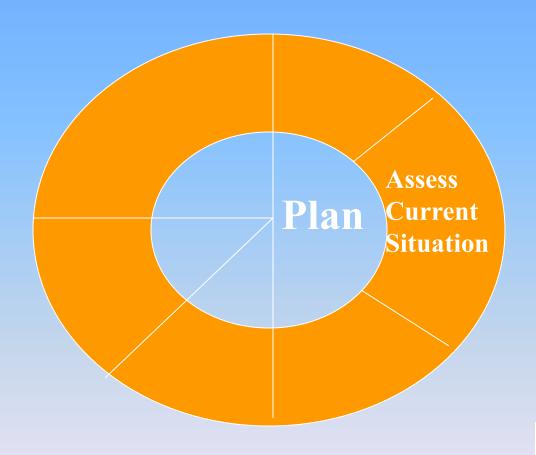


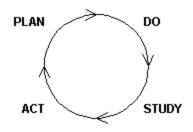
The Problem- 20% of Students are not proficient in mathematics





Collect some other data to determine specific problems.



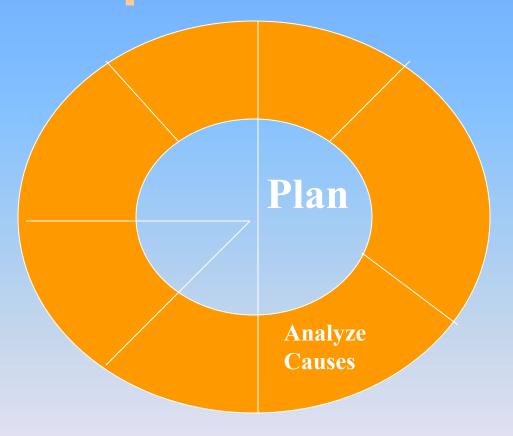


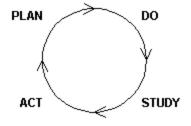
What other data?

Program evaluations
Teacher and staff data
Other assessment data
Professional development impact

Financial data – available resources amount expended

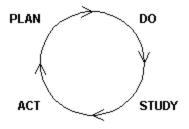
Figure out what's causing the problem.





Try something *different* to improve mathematics results – apply the research.





Effectiveness

- 3 most common staffing decisions
 - Teachers/ interventionists (HQ)
 - Paraprofessionals (HQ)
 - Coaches guidelines on our web page

http://www.azed.gov/no-child-left-behind/files/2014/07/title-i-instructional-coach-guidelines.pdf

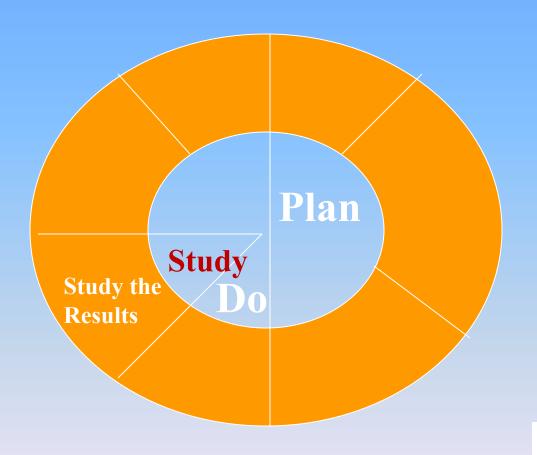
- 3 most common program designs (how much time?)
 - Intervention by specialist
 - Tutoring or extra time after school
 - Summer school

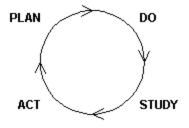
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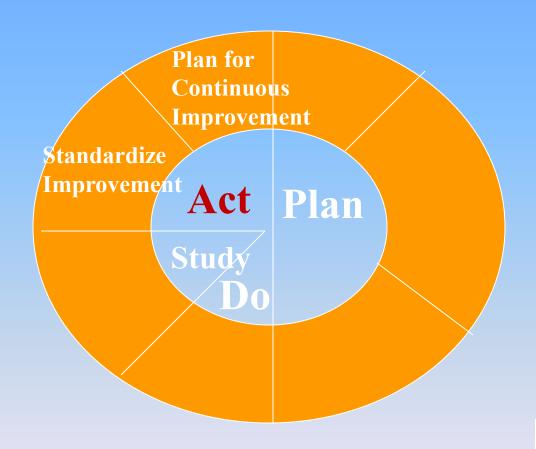
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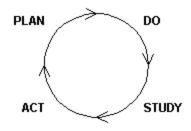
How did our strategy work? Did we make improvements?



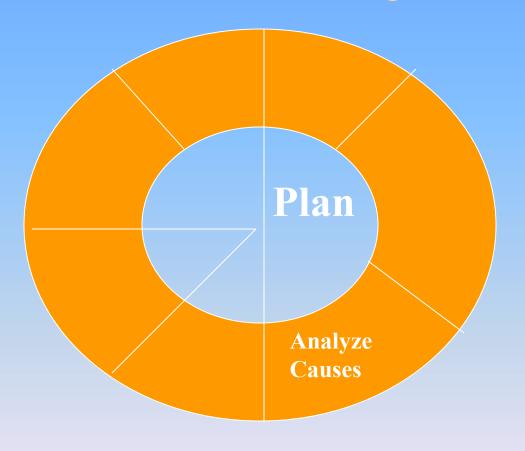


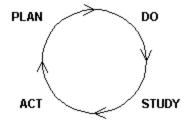
If it worked, standardize our improvements.



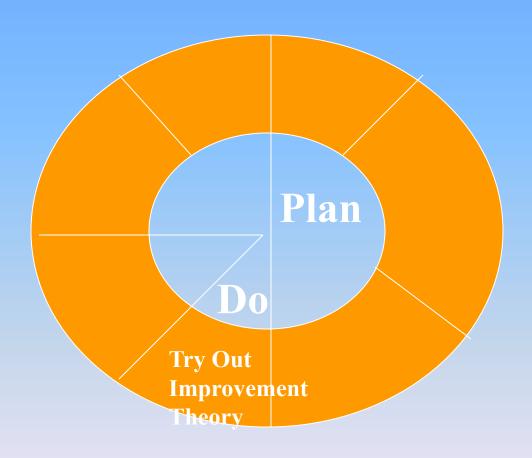


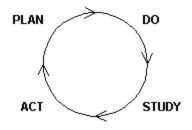
If it didn't work, cycle back to analyze and make adjustments





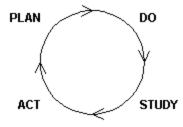
Try something different to improve mathematics results.





If it worked, standardize the improvements.





Intersection of Plan and Budget



Effective Use of Resources – Should we keep doing this?